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Gel-formed emulsion composition - comprises polysaccharide prepared by
Pseudomonas erodia, oil agent and powder of water-insoluble
carbonyl-containing polymer

Patent Assignee: POLA CHEM IND INC (POKK)

Number of Countries: 001 Number of Patents: 001

Patent Family:

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Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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Abstract (Basic): JP 9255560 A

An emulsion composition comprises: (1) a polysaccharide produced by Pseudomonas erodia and containing glucose, glucuronic acid and rhamnose as constituent saccharides; (2) a volatile oil agent, and (3) a powder of a water-insoluble carbonyl-containing polymer. The polysaccharide has the structure of formula (I) where [->3) - beta -D-glucose(1->4)- beta -D-glucuronic acid(1->4)- beta -D-glucose(1->4)- alpha -L-rhamnose(1->)] is a repeated unit. In (I), n = integer.

The agent (2) has a b.pt. < 200 deg. C under atmospheric pressure. The composition contains (wt.%): 0.1-5 (1), 1-90 (2) and 0.1-20 (3). The agent (2) is at least 1 of dimethylpolysiloxanes of a viscosity of 0.1-10 cSt, cyclic dimethylpolysiloxanes composed of 3-6 monomers, 19C or lower branched hydrocarbons and 11C or lower esters. The polymer (3) is at least 1 of water-insoluble polysaccharides and proteins, polyamides and acrylic resins, preferably at least 1 cellulose, silk and leather of cattle.

USE - The composition is used in cosmetics and for treating skin problems by external application.

ADVANTAGE - The composition has a good feel in use and allows a reduction of the amount of surfactants added without impairing usability and emulsion form. As a cosmetic material, it overcomes cosmetic disintegration and poor safety associated with surfactants. As a skin external drug, it improves loss of residence in the skin and poor safety associated with surfactants.

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Title Terms: GEL; FORMING; EMULSION; COMPOST; COMPRISE; POLYSACCHARIDE; PREPARATION; PSEUDOMONAS; OIL; AGENT; POWDER; WATER; INSOLUBLE; CARBONYL; CONTAIN; POLYMER

Derwent Class: B07; D16; D17; D21

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